CODE & PIXELS

Values, People, Experience & Technology

13TH ANNIVERSARY 2012 - 2025

Leader in IETM Technology

Code and Pixels – Leaders in IETM for Indian Defence

WE MEASURE OUR SUCCESS BY OUR CLIENT SUCCESS

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Code and Pixels – Leaders in IETM for Indian Defence

For over **14 years**, **Code and Pixels** has been a trusted technology partner to the **Indian Armed Forces** and Defence OEMs across India. The company is widely recognized as a pioneer in the development of Interactive Electronic Technical Manuals (IETM) in the country.

As a pioneer IETM development agency in India, Code and Pixels proudly delivers **Quantum TechDocs**, a fully indigenous **COTS (Commercial-Off-The-Shelf)** IETM platform built to support Indian Defence standards. Developed under the vision of **Make in India** and **Atmanirbhar Bharat**, Quantum TechDocs represents a true Indian-engineered solution designed to reduce dependency on foreign software products.

This robust **COTS product** empowers defence OEMs, shipyards and system integrators with a ready-to-deploy, secure and standards compliant IETM system. As an indigenous **COTS-based IETM solution**, it combines proven architecture, scalability and lifecycle support making it a strategic digital documentation platform aligned with India's self-reliance mission.

In **2015**, Code and Pixels delivered one of the **first IETM Level 3 projects for the AKASH Weapon System**. This project became a benchmark reference for subsequent IETM tenders in India's Defence ecosystem.

Why Does Code and Pixels Lead the IETM Domain?

Technology alone did not place Code and Pixels at the top it is the powerful combination of:

- 14+ years of Defence domain expertise
- 200+ successfully delivered IETM projects
- 100+ OEM and Defence clients served
- Strong understanding of Indian Defence standards (JSG 0852:2019)
- A fully indigenous IETM software platform

Their flagship product, **Quantum TechDocs – Interactive Electronic Technical Manual (IETM) Publishing Suite COTS (Commercial-Off-The-Shelf)** was developed in line with the spirit of **Make in India** and **Atmanirbhar Bharat** initiatives.

What Makes Quantum TechDocs Different?

- Fully compliant with Indian Defence Standard **JSG 0852:2019**
- No third-party software required at client locations
- Built using modern technology (Angular, Node, MariaDB)

- Includes Authoring Tool, Viewer and Publishing framework
- Feature rich and user-friendly
- Economical solution

Where traditional **S1000D-based IETM implementations** may cost around ₹25 lakhs per project, Quantum TechDocs delivers advanced capabilities at nearly **1/10th of the cost** making it highly suitable for the Indian Defence ecosystem.

Addressing the PDF Limitation in Defence Documentation

Earlier, Defence OEMs delivered technical manuals in PDF format. While suitable for small systems, PDFs are inefficient for:

- Complex weapon systems
- Missiles
- Shipbuilding systems
- Military vehicles

Recognizing this challenge, Indian Defence introduced **JSG 0852** standards for IETM. However, implementation was limited due to technological constraints until Code and Pixels designed a complete indigenous IETM framework and authoring ecosystem.

This innovation simplified the IETM development lifecycle and made large-scale implementation practical and affordable.

Esteemed Defence Organizations Served using Quantum TechDocs as COTS (Commercial-Off-The-Shelf)

Code and Pixels has delivered CBTs, IETMs, technical documentation and training aids to major Defence laboratories and production agencies including:

- DRDO Labs (DRDL, RCI, ASL)
- Bharat Dynamics Limited (BDL)
- Electronics Corporation of India Limited (ECIL)
- Bharat Electronics Limited (BEL)
- Hindustan Shipyard Limited (HSL)
- BrahMos Aerospace
- Shipyards including GSL and GRSE

The company has contributed documentation solutions for prestigious weapon systems such as:

- AKASH Weapon System
- AGNI Missile Systems
- BrahMos Missile
- ASTRA
- MRASAM (IAF)

Trusted by India's Leading OEMs

Code and Pixels has worked with several leading private and public sector OEMs including:

TATA Group companies, L&T, Mahindra Defence, Raphe mPhibr, Data Patterns, Ashok Leyland, Tractors India Limited, Zen Technologies, Johnson Controls, IdeaForge, Kirloskar, Enertech, Marine Electricals, MAN Energy Solutions, Tata Advanced Systems Limited, Astra Rafael Comsys and many more.

Quantum TechDocs has also been associated with international Defence IETM service providers such as Navcon Advanced Systems (UAE), EKA Three G (Republic of Korea)

Industry Recognition & Impact

- Over 200 IETM projects delivered in India
- Only Indian company to achieve such scale in Defence IETM
- Conducted multiple IETM software training programs for Indian Army, Navy and Air Force personnel
- Provided free consultation to OEMs, Shipyards and Defence Labs for IETM implementation
- Several IETM tender specifications were drafted referencing Quantum TechDocs framework

A True Indigenous Defence Technology Solution

Quantum TechDocs is one of the most advanced IETM publishing platforms available in India today. It is built entirely in-house by Code and Pixels ensuring:

- Full control over development

- Continuous enhancements
- Strong support ecosystem
- Longterm sustainability

It is more than a software product; it is a complete IETM ecosystem designed specifically for Indian Defence requirements.

Quantum TechDocs – A Proven COTS IETM Platform for Indian Defence Standards

Quantum TechDocs is a robust **COTS (Commercial-Off-The-Shelf)** IETM software platform specifically designed to meet **Indian Defence standard requirements such as JSG 0852**. As a fully developed **COTS product**, it enables defence OEMs, shipyards and system integrators to create, manage and deliver Interactive Electronic Technical Manuals efficiently without investing in custom built software. This ready to deploy **COTS solution** reduces implementation time, minimizes risk and ensures compliance with Indian defence documentation protocols.

Quantum TechDocs, as a mature and field proven **COTS platform**, offers structured data management, secure architecture, role-based access control and seamless integration with existing defence systems. By choosing a reliable **COTS-based IETM solution**, organizations benefit from stability, scalability and long-term support while avoiding the cost and uncertainty associated with developing bespoke systems.

Summary:

- For over 14 years, Code and Pixels has led the IETM transformation in Indian Defence with its indigenous Quantum TechDocs Publishing Suite.
- With 200+ successful IETM projects and 100+ OEM clients, the company has set industry benchmarks in compliance with JSG 0852 standards.
- By replacing outdated PDF manuals with advanced interactive solutions, it has improved efficiency across complex weapon and shipbuilding systems.
- Cost-effective, fully indigenous and feature rich, Quantum TechDocs empowers Defence organizations under the vision of Make in India and Atmanirbhar Bharat.
- Code and Pixels proudly continue to strengthen India's defence ecosystem through innovation, expertise and commitment.

For detailed software specifications:
https://www.codeandpixels.net/Ietm-level-4-quantum-techdocs-publishing-suite

For detailed client list using Quantum TechDocs:
https://www.codeandpixels.net/quantum-techdocs-ietm-client-list

For clients and partners:
https://www.codeandpixels.net/clients-and-partners

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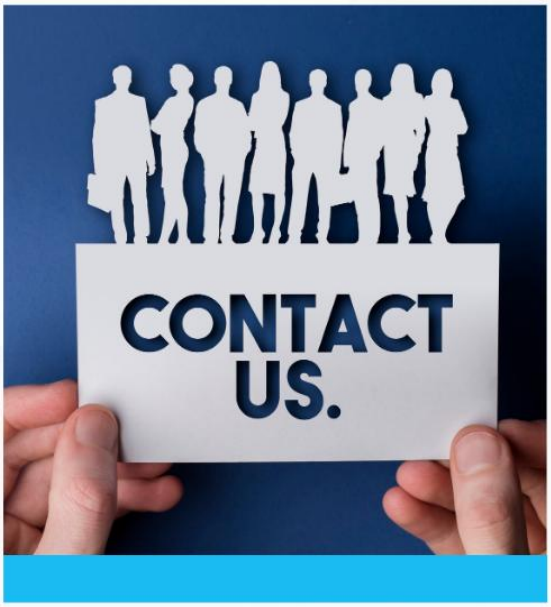

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Thank You

We are Just a Call away